A. AMENDMENTS TO CLAIMS

Please cancel Claims 6, 18, 30, 42, 56, 66, 71-76 and 84 and amend the claims as indicated hereinafter.

1. (CURRENTLY AMENDED) A computer-implemented method for managing data stored in a cache comprising: ~~the computer implemented steps of:~~

providing a first version of data in response to receiving a first request for data;

detecting, independent of any request for the data, that a second more recent version of the data is available;

in response to detecting, independent of any request for the data, that the second more recent version of the data is available,

storing, in a location other than the cache, a request to retrieve and store in the cache the second more recent version of the data,

processing the request to retrieve and store in the cache the second more recent version of the data,

if the request to retrieve and store in the cache the second more recent version of the data cannot be processed successfully, then after expiration of a specified time,

retrieving from the location other than the cache, the request to retrieve and store in the cache the second more recent version of the data,

re-processing the request to retrieve and store in the cache the second more recent version of the data,

receiving the second more recent version of the data, and

~~requesting the second more recent version of the data be supplied to the cache,~~

~~and~~

storing in the cache the second more recent version of the data;

receiving a second request for the data; and

in response to receiving the second request for the data,

retrieving the second more recent version of the data from the cache, and

providing the second more recent version of the data.

2. (ORIGINAL) The method as recited in Claim 1, further comprising the step of deleting the first version of the data from the cache.

3. (CURRENTLY AMENDED) The method as recited in Claim 2, further comprising the steps of:

storing, in a location other than the ~~first~~ cache, a request to delete the first version of the data from the cache, and

if the request to delete the first version of the data from the cache cannot be successfully processed, then after expiration of <u>the</u> ~~a~~-specified ~~period of~~ time,

retrieving from the location other than the ~~first~~ cache, the request to delete the ~~first~~ version of the data from the cache, and

processing again the request to delete the first version of the data from the cache.

4. (CURRENTLY AMENDED) The method as recited in Claim 1, further comprising the step of if the second more recent version of the data cannot be retrieved and stored in the cache, then after <u>expiration of the</u> ~~a~~-specified ~~period of~~ time, attempting to again retrieve and store in the cache the second more recent version of the data.

5. (CURRENTLY AMENDED) The method as recited in Claim 1, further comprising the step of if, after expiration of <u>the</u> ~~a~~ specified ~~period of~~ time from a time when the second more recent version of the data is stored in the cache, no further requests for the second more recent version of the data are received, then deleting the second more recent version of the data from the cache.

6. (CANCELED)

7. (ORIGINAL) The method as recited in Claim 1, further comprising providing data that indicates whether the second more recent version of the data was successfully retrieved and stored in the cache.

8. (PREVIOUSLY PRESENTED) The method as recited in Claim 1, further comprising causing a copy of the second more recent version of the data to be stored at a second cache.

9. (ORIGINAL) The method as recited in Claim 1, wherein the step retrieving and storing in the cache the second more recent version of the data is performed in response to processing one or more requests from an authorized entity.

10. (ORIGINAL) The method as recited in Claim 1, further comprising generating, based upon a set of logging criteria, log data that indicates one or more activities of the cache.

11. (ORIGINAL) The method as recited in Claim 10, wherein the set of logging criteria includes the size of the first version of data provided.

12. (ORIGINAL) The method as recited in Claim 10, wherein the set of logging criteria includes an amount of time required to provide the first version of data.

13. (CURRENTLY AMENDED) A computer-readable medium carrying ~~one or more sequences of one or more~~ instructions for managing data stored in a cache, wherein execution of the ~~one or more sequences of one or more~~ instructions by one or more processors causes: ~~cause the one or more processors to perform the steps of:~~
    providing a first version of data in response to receiving a first request for data;
    detecting, independent of any request for the data, that a second more recent version of the data is available;
    in response to detecting, independent of any request for the data, that the second more recent version of the data is available,
        storing, in a location other than the cache, a request to retrieve and store in the cache the second more recent version of the data,

processing the request to retrieve and store in the cache the second more recent version of the data,

if the request to retrieve and store in the cache the second more recent version of the data cannot be processed successfully, then after expiration of a specified time,

retrieving from the location other than the cache, the request to retrieve and store in the cache the second more recent version of the data,

re-processing the request to retrieve and store in the cache the second more recent version of the data,

receiving the second more recent version of the data, and

~~requesting the second more recent version of the data be supplied to the cache, and~~

storing in the cache the second more recent version of the data;

receiving a second request for the data; and

in response to receiving the second request for the data,

retrieving the second more recent version of the data from the cache, and

providing the second more recent version of the data.

14.   (ORIGINAL) The computer-readable medium as recited in Claim 13, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of deleting the first version of the data from the cache.

15.   (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 14, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the steps of:

storing, in a location other than the ~~first~~ cache, a request to delete the first version of the data from the cache, and

if the request to delete the first version of the data from the cache cannot be successfully processed, then after expiration of the ~~a~~-specified ~~period of~~ time,

retrieving from the location other than the ~~first~~ cache, the request to delete the first version of the data from the cache, and

processing again the request to delete the first version of the data from the cache.

16. (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 13, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of if the second more recent version of the data cannot be retrieved and stored in the cache, then after expiration of the ~~a~~-specified ~~period of~~ time, attempting to again retrieve and store in the cache the second more recent version of the data.

17. (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 13, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of if, after expiration of ~~the~~ ~~a~~-specified ~~period of~~ time from a time when the second more recent version of the data is stored in the cache, no further requests for the second more recent version of the data are received, then deleting the second more recent version of the data from the cache.

18. (CANCELED)

19. (ORIGINAL) The computer-readable medium as recited in Claim 13, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of providing data that indicates whether the second more recent version of the data was successfully retrieved and stored in the cache.

20. (PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 13, further comprising one or more additional instructions which, when executed by the one

or more processors, cause the one or more processors to perform the step of causing a copy of the second more recent version of the data to be stored at a second cache.

21. (ORIGINAL) The computer-readable medium as recited in Claim 13, wherein the step retrieving and storing in the cache the second more recent version of the data is performed in response to processing one or more requests from an authorized entity.

22. (ORIGINAL) The computer-readable medium as recited in Claim 13, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of generating, based upon a set of logging criteria, log data that indicates one or more activities of the cache.

23. (ORIGINAL) The computer-readable medium as recited in Claim 22, wherein the set of logging criteria includes the size of the first version of data provided.

24. (ORIGINAL) The computer-readable medium as recited in Claim 22, wherein the set of logging criteria includes an amount of time required to provide the first version of data.

25. (CURRENTLY AMENDED) A computer-implemented method for managing data stored in a cache comprising: the computer-implemented steps of:
   providing, from a cache, a first version of data in response to receiving a first request for
      data;
   detecting, independent of any request for the data, that a second more recent version of
      the data is available;
   in response to detecting, independent of any request for the data, that the second more
      recent version of the data is available,
         storing, in a location other than the cache, a request to retrieve and store in the
            cache the second more recent version of the data,
         processing the request to retrieve and store in the cache the second more recent
            version of the data,

if the request to retrieve and store in the cache the second more recent version of the data cannot be processed successfully, then after expiration of a specified time,

retrieving from the location other than the cache, the request to retrieve and store in the cache the second more recent version of the data,

re-processing the request to retrieve and store in the cache the second more recent version of the data,

receiving the second more recent version of the data,

storing in the cache the second more recent version of the data; and

deleting the first version of the data from the cache. ~~cache, and~~

~~requesting the second more recent version of the data be supplied to the cache.~~

26. (ORIGINAL) The method as recited in Claim 25, further comprising:

retrieving and storing in the cache the second more recent version of the data;

receiving a second request for the data; and

in response to receiving the second request for the data,

retrieving the second more recent version of the data from the cache, and

providing the second more recent version of the data.

27. (CURRENTLY AMENDED) The method as recited in Claim 25, further comprising the steps of:

storing, in a location other than the ~~first~~ cache, a request to delete the first version of the data from the cache, and

if the request to delete the first version of the data from the cache cannot be successfully processed, then after expiration of the ~~a~~ specified ~~period of~~ time,

retrieving from the location other than the ~~first~~ cache, the request to delete the first version of the data from the cache, and

processing again the request to delete the first version of the data from the cache.

28.   (CURRENTLY AMENDED) The method as recited in Claim 26, further comprising the step of if the second more recent version of the data cannot be retrieved and stored in the cache, then after expiration of the a-specified period of time, attempting to again retrieve and store in the cache the second more recent version of the data.

29.   (CURRENTLY AMENDED) The method as recited in Claim 26, further comprising the step of if, after expiration of the a-specified period of time from a time when the second more recent version of the data is stored in the cache, no further requests for the second more recent version of the data are received, then deleting the second more recent version of the data from the cache.

30.   (CANCELED)

31.   (ORIGINAL) The method as recited in Claim 25, further comprising providing data that indicates whether the first recent version of the data was successfully deleted from the cache.

32.   (ORIGINAL) The method as recited in Claim 26, further comprising causing a copy of the second more recent version of the data to be stored at a second cache.

33.   (ORIGINAL) The method as recited in Claim 26, wherein the step retrieving and storing in the cache the second more recent version of the data is performed in response to processing one or more requests from an authorized entity.

34.   (ORIGINAL) The method as recited in Claim 25, further comprising generating, based upon a set of logging criteria, log data that indicates one or more activities of the cache.

35.   (ORIGINAL) The method as recited in Claim 34, wherein the set of logging criteria includes the size of the first version of data provided.

36.   (ORIGINAL) The method as recited in Claim 34, wherein the set of logging criteria includes an amount of time required to provide the first version of data.

37.   (CURRENTLY AMENDED) A computer-readable medium carrying ~~one or more sequences of~~ instructions for managing data stored in a cache, wherein execution of the ~~one or more sequences of one or more~~ instructions by one or more processors causes: ~~cause the one or more processors to perform the steps of:~~

providing, from a cache, a first version of data in response to receiving a first request for data;

detecting, independent of any request for the data, that a second more recent version of the data is available;

in response to detecting, independent of any request for the data, that the second more recent version of the data is available,

  storing, in a location other than the cache, a request to retrieve and store in the cache the second more recent version of the data,

  processing the request to retrieve and store in the cache the second more recent version of the data,

  if the request to retrieve and store in the cache the second more recent version of the data cannot be processed successfully, then after expiration of a specified time,

    retrieving from the location other than the cache, the request to retrieve and store in the cache the second more recent version of the data,

    re-processing the request to retrieve and store in the cache the second more recent version of the data,

  receiving the second more recent version of the data,

  storing in the cache the second more recent version of the data; and

  deleting the first version of the data from the cache. ~~cache, and requesting the second more recent version of the data be supplied to the cache.~~

38.   (ORIGINAL) The computer-readable medium as recited in Claim 37, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the steps of:

retrieving and storing in the cache the second more recent version of the data;

receiving a second request for the data; and

in response to receiving the second request for the data,

retrieving the second more recent version of the data from the cache, and

providing the second more recent version of the data.

39.   (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 37, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the steps of:

storing, in a location other than the first cache, a request to delete the first version of the data from the cache, and

if the request to delete the first version of the data from the cache cannot be successfully processed, then after expiration of the a-specified period of time,

retrieving from the location other than the first cache, the request to delete the first version of the data from the cache, and

processing again the request to delete the first version of the data from the cache.

40.   (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 38, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of if the second more recent version of the data cannot be retrieved and stored in the cache, then after expiration of the a-specified period of time, attempting to again retrieve and store in the cache the second more recent version of the data.

41.   (CURRENTLY AMENDED) The computer-readable medium as recited in Claim 38, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of if, after

expiration of the a-specified period of time from a time when the second more recent version of the data is stored in the cache, no further requests for the second more recent version of the data are received, then deleting the second more recent version of the data from the cache.

42.   (CANCELED)

43.   (ORIGINAL) The computer-readable medium as recited in Claim 37, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of providing data that indicates whether the first recent version of the data was successfully deleted from the cache.

44.   (ORIGINAL) The computer-readable medium as recited in Claim 38, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of causing a copy of the second more recent version of the data to be stored at a second cache.

45.   (ORIGINAL) The computer-readable medium as recited in Claim 38, wherein the step retrieving and storing in the cache the second more recent version of the data is performed in response to processing one or more requests from an authorized entity.

46.   (ORIGINAL) The computer-readable medium as recited in Claim 37, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of generating, based upon a set of logging criteria, log data that indicates one or more activities of the cache.

47.   (ORIGINAL) The computer-readable medium as recited in Claim 46, wherein the set of logging criteria includes the size of the first version of data provided.

48.   (ORIGINAL) The computer-readable medium as recited in Claim 46, wherein the set of logging criteria includes an amount of time required to provide the first version of data.

49.   (CURRENTLY AMENDED) A computer-implemented method for managing data stored in a cache comprising: the computer-implemented steps of:

selecting, based upon one or more selection criteria, one or more data items from a plurality of data items stored on the cache;

determining, for each of the one or more data items, independent of any request for any of the one or more data items, whether a newer version of the data item is available; and

for each of the one or more data items where a determination is made, independent of any request for any of the one or more data items, that a newer version of the data item is available,

storing, in a location other than the cache, a request to retrieve and store in the cache the newer version of the data item,

processing the request to retrieve and store in the cache the newer version of the data item,

if the request to retrieve and store in the cache the newer version of the data item cannot be processed successfully, then after expiration of a specified time,

retrieving from the location other than the cache, the request to retrieve and store in the cache the newer version of the data item,

re-processing the request to retrieve and store in the cache the newer version of the data item,

receiving the newer version of the data item;

deleting the data item from the cache,

requesting the newer version of the data item be supplied to the cache, and

storing in the cache the newer version of the data item. item; and

deleting the data item from the cache.

50.   (ORIGINAL) The method as recited in Claim 49, wherein the one or more selection criteria include a source of each of the plurality of data items.

51.   (ORIGINAL) The method as recited in Claim 49, wherein the one or more selection criteria include a type of each of the plurality of data items.

52.   (ORIGINAL) The method as recited in Claim 49, wherein the one or more selection criteria include one or more users of the plurality of data items.

53.   (ORIGINAL) The method as recited in Claim 49, wherein the one or more selection criteria include a size of each of the plurality of data items.

54.   (ORIGINAL) The method as recited in Claim 49, wherein the one or more selection criteria include an age of each of the plurality of data items.

55.   (ORIGINAL) The method as recited in Claim 49, further comprising:
storing a request to delete the data item from the cache,
if the request to delete the data from the cache is not successfully processed, then
     processing the stored request to delete the data from the cache.

56.   (CANCELED)

57.   (PREVIOUSLY PRESENTED) The method as recited in Claim 49, further comprising for each of the one or more data items where a newer version of the data item is available, storing in a second cache the newer version of the data item.

58.   (ORIGINAL) The method as recited in Claim 49, wherein the steps of deleting the data item from the cache, and retrieving and storing in the cache the newer version of the data item are preformed in response to processing one or more requests from an authorized entity.

59.   (CURRENTLY AMENDED) A computer-readable medium carrying ~~one or more sequences of one or more~~ instructions for managing data stored in a cache, wherein

execution of the ~~one or more sequences of one or more~~ instructions <u>causes:</u> ~~cause one or more processors to perform the steps of:~~

selecting, based upon one or more selection criteria, one or more data items from a plurality of data items stored on the cache;

determining, for each of the one or more data items, independent of any request for any of the one or more data items, whether a newer version of the data item is available; and

for each of the one or more data items where a determination is made, independent of any request for any of the one or more data items, that a newer version of the data item is available,

<u>storing, in a location other than the cache, a request to retrieve and store in the cache the newer version of the data item,</u>

<u>processing the request to retrieve and store in the cache the newer version of the data item,</u>

<u>if the request to retrieve and store in the cache the newer version of the data item cannot be processed successfully, then after expiration of a specified time,</u>

<u>retrieving from the location other than the cache, the request to retrieve and store in the cache the newer version of the data item,</u>

<u>re-processing the request to retrieve and store in the cache the newer version of the data item,</u>

<u>receiving the newer version of the data item;</u>

~~deleting the data item from the cache,~~

~~requesting the newer version of the data item be supplied to the cache, and~~

storing in the cache the newer version of the data ~~item.~~ <u>item; and</u>

<u>deleting the data item from the cache.</u>

60. (ORIGINAL) The computer-readable medium as recited in Claim 59, wherein the one or more selection criteria include a source of each of the plurality of data items.

61. (ORIGINAL) The computer-readable medium as recited in Claim 59, wherein the one or more selection criteria include a type of each of the plurality of data items.

62.　(ORIGINAL) The computer-readable medium as recited in Claim 59, wherein the one or more selection criteria include one or more users of the plurality of data items.

63.　(ORIGINAL) The computer-readable medium as recited in Claim 59, wherein the one or more selection criteria include a size of each of the plurality of data items.

64.　(ORIGINAL) The computer-readable medium as recited in Claim 59, wherein the one or more selection criteria include an age of each of the plurality of data items.

65.　(ORIGINAL) The computer-readable medium as recited in Claim 59, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the steps of:
storing a request to delete the data item from the cache,
if the request to delete the data from the cache is not successfully processed, then
　　processing the stored request to delete the data from the cache.

66.　(CANCELED)

67.　(PREVIOUSLY PRESENTED) The computer-readable medium as recited in Claim 59, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of for each of the one or more data items where a newer version of the data item is available,
　　storing in a second cache the newer version of the data item.

68.　(ORIGINAL) The computer-readable medium as recited in Claim 59, wherein the steps of deleting the data item from the cache, and retrieving and storing in the cache the newer version of the data item are preformed in response to processing one or more requests from an authorized entity.

69.   (CURRENTLY AMENDED) A <u>computer-implemented</u> method for managing a cache
       comprising<u>:</u> ~~the computer-implemented steps of:~~

       detecting, independent of any request for data, that new data that is not stored in the
              cache is available;

       in response to detecting, independent of any request for data, that the new data is
              available,

              <u>storing, in a location other than the cache, a request to retrieve and store in the</u>
                     <u>cache the new data,</u>

              <u>processing the request to retrieve and store in the cache the new data,</u>

              <u>if the request to retrieve and store in the cache the new data cannot be processed</u>
                     <u>successfully, then after expiration of a specified time,</u>

                     <u>retrieving from the location other than the cache, the request to retrieve</u>
                            <u>and store in the cache the new data,</u>

                     <u>re-processing the request to retrieve and store in the cache the new data,</u>

              <u>receiving the new data; and</u>

              ~~requesting that the new data be supplied to the cache, and~~

              storing the new data in the cache;

       receiving from a user a request for the new data; and

       in response to receiving the request for the new data,

              retrieving the new data from the cache, and

              providing the new data to the user.

70.   (CURRENTLY AMENDED) A computer-readable medium carrying ~~one or more~~
       ~~sequences of one or more~~ instructions for managing a cache, wherein execution of the
       ~~one or more sequences of one or more~~ instructions by one or more processors <u>causes:</u>
       ~~cause the one or more processors to perform the steps of:~~

       detecting, independent of any request for data, that new data that is not stored in the
              cache is available;

       in response to detecting, independent of any request for data, that the new data is
              available,

storing, in a location other than the cache, a request to retrieve and store in the cache the new data,

processing the request to retrieve and store in the cache the new data,

if the request to retrieve and store in the cache the new data cannot be processed successfully, then after expiration of a specified time,

retrieving from the location other than the cache, the request to retrieve and store in the cache the new data,

re-processing the request to retrieve and store in the cache the new data,

receiving the new data; and

~~requesting that the new data be supplied to the cache, and~~

storing the new data in the cache;

receiving from a user a request for the new data; and

in response to receiving the request for the new data,

retrieving the new data from the cache, and

providing the new data to the user.

71-76. (CANCELED)

77.   (CURRENTLY AMENDED) A computer-implemented method for managing content comprising: ~~the computer-implemented steps of:~~

retrieving from an origin server a first version of content;

storing the first version of the content on a storage medium at a traffic server;

in response to a first request for the content, retrieving the first version of the content from the storage medium and providing the first version of the content;

detecting, independent of any request for the content, that a second more recent version of the content is available on the origin server;

in response to detecting, independent of any request for the content, that the second more recent version of the content is available on the origin server,

storing, in a location other than the cache, a request to retrieve and store in the cache the second more recent version of the content,

processing the request to retrieve and store in the cache the second more recent version of the content,

if the request to retrieve and store in the cache the second more recent version of the content cannot be processed successfully, then after expiration of a specified time,

retrieving from the location other than the cache, the request to retrieve and store in the cache the second more recent version of the content,

re-processing the request to retrieve and store in the cache the second more recent version of the content,

receiving the second more recent version of the content;

~~deleting the first version of the content from the storage medium,~~

~~requesting and receiving the second more recent version of the content from the origin server, and~~

storing the second more recent version of the content on the storage medium;

deleting the first version of the content from the storage medium; and

in response to a second request for the content, retrieving the second more recent version of the content from the storage medium and providing the second more recent version of the content.

78.   (PREVIOUSLY PRESENTED) A computer-readable medium carrying one or more sequences of one or more instructions for managing content, wherein execution of the one or more sequences of one or more instructions by one or more processors cause the one or more processors to perform the steps of:

retrieving from an origin server a first version of content;

storing the first version of the content on a storage medium at a traffic server;

in response to a first request for the content, retrieving the first version of the content from the storage medium and providing the first version of the content;

detecting, independent of any request for the content, that a second more recent version of the content is available on the origin server;

in response to detecting, independent of any request for the content, that the second more

recent version of the content is available on the origin server,

storing, in a location other than the cache, a request to retrieve and store in the

cache the second more recent version of the content,

processing the request to retrieve and store in the cache the second more recent

version of the content,

if the request to retrieve and store in the cache the second more recent version of

the content cannot be processed successfully, then after expiration of a

specified time,

retrieving from the location other than the cache, the request to retrieve

and store in the cache the second more recent version of the

content,

re-processing the request to retrieve and store in the cache the second

more recent version of the content,

receiving the second more recent version of the content,

~~deleting the first version of the content from the storage medium,~~

~~requesting and receiving the second more recent version of the content from the~~

~~origin server, and~~

storing the second more recent version of the content on the storage medium;

deleting the first version of the content from the storage medium; and

in response to a second request for the content, retrieving the second more recent version

of the content from the storage medium and providing the second more recent

version of the content.

79.   (PREVIOUSLY PRESENTED) An apparatus for managing content on a cache

comprising:

a communications interface configured to communicate with the cache; and

a differencing mechanism communicatively coupled to the communications interface and

configured to

detect, independent of any request for content, that a second more recent version

of the content is available,

in response to detecting, independent of any request for content, that the second

more recent version of the content is available,

store, in a location other than the cache, a request to retrieve and store in

the cache the second more recent version of the content,

process the request to retrieve and store in the cache the second more

recent version of the content,

if the request to retrieve and store in the cache the second more recent

version of the content cannot be processed successfully, then after

expiration of a specified time,

retrieve from the location other than the cache, the request to

retrieve and store in the cache the second more recent

version of the content,

re-process the request to retrieve and store in the cache the second

more recent version of the content,

receive the second more recent version of the content; and

~~request the second more recent version of the content be supplied to the~~

~~cache, and~~

cause the second more recent version of the content to be stored on the

cache.

80. (ORIGINAL) The apparatus as recited in Claim 79, wherein the differencing mechanism
is further configured to delete from the cache a first older version of the content.

81. (CURRENTLY AMENDED) The apparatus as recited in Claim 80, wherein the
differencing mechanism is further configured to:
store a request to delete the first older version of the content from the cache, and
if the request to delete the first older version of the content from the cache cannot be
successfully processed, then after expiration of the a-specified ~~period of~~ time,
retrieving the request to delete the first older version of the content from
the cache, and

processing the request to delete the first older version of the content from the cache.

82.   (CURRENTLY AMENDED) The apparatus as recited in Claim 79, wherein the differencing mechanism is further configured to if the second more recent version of the content cannot be retrieved and stored in the cache, then after <u>expiration of the</u> a specified ~~period of~~ time, attempt to again retrieve and store in the cache the second more recent version of the content.

83.   (CURRENTLY AMENDED) The apparatus as recited in Claim 79, wherein the differencing mechanism is further configured to if, after expiration of <u>the</u> a-specified ~~period of~~ time from a time when the second more recent version of the content is stored in the cache, no further requests for the second more recent version of the content are received, then deleting the second more recent version of the content from the cache.

84.   (CANCELED)

85.   (ORIGINAL) The apparatus as recited in Claim 79, wherein the differencing mechanism is further configured to generate data that indicates whether the second more recent version of the content was successfully retrieved and stored in the cache.

86.   (ORIGINAL) The apparatus as recited in Claim 79, wherein the differencing mechanism is further configured to cause a copy of the second more recent version of the content to be stored at a second cache.

87.   (ORIGINAL) The apparatus as recited in Claim 79, wherein the retrieving and storing in the cache the second more recent version of the content is performed in response to processing one or more requests from an authorized entity.

88.   (ORIGINAL) The apparatus as recited in Claim 79, wherein the differencing mechanism is further configured to generate, based upon a set of logging criteria, log data that indicates one or more activities of the cache.

89.   (CURRENTLY AMENDED) The apparatus as recited in Claim 88, 84, wherein the set of logging criteria includes the size of the first version of content provided.

90.   (CURRENTLY AMENDED) An apparatus for managing a cache comprising:
a communications interface configured to communicate with the cache; and
a differencing mechanism communicatively coupled to the communications interface and
        configured to
        detect, independent of any requests for data stored in the cache, that a second
                more recent version of the data is available;
        in response to detecting, independent of any requests for data stored in the cache,
                that the second more recent version of the data is available,
                causing a first older version of the data to be deleted from the cache, and
                storing, in a location other than the cache, a request to retrieve and store in
                        the cache the second more recent version of the content,
                processing the request to retrieve and store in the cache the second more
                        recent version of the content,
                if the request to retrieve and store in the cache the second more recent
                        version of the content cannot be processed successfully, then after
                        expiration of a specified time,
                        retrieving from the location other than the cache, the request to
                                retrieve and store in the cache the second more recent
                                version of the content,
                        re-processing the request to retrieve and store in the cache the
                                second more recent version of the content; and
                receiving the second more recent version of the content.
                requesting the second more recent version of the data be supplied to the cache.